

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claim 1. (Currently Amended) A method for providing an interactive data service between a base station and at least one mobile station in a mobile communication system including the at least one mobile station, the base station communicating with the at least one mobile station, and a server connected to the base station, the server providing data to the at least one mobile station, the method comprising the steps of:

transmitting, by the base station, data transmitted from the server, to the at least one mobile station over a forward common channel all mobile stations can receive in common during the interactive data service; and

transmitting reverse transmission data over a dedicated channel for data transmission, by a serviced mobile station, receiving a service through the forward common channel during the interactive data service.

Claim 2. (Original) The method of claim 1, wherein the base station provides a broadcast service through the forward common channel.

Claim 3. (Original) The method of claim 1, wherein the base station transmits to the at least one mobile station assignment information of a multicast fundamental channel for transmitting forward broadcast information, assignment information of a common assignment channel for transmitting a response message for reverse data, assignment information of a common power control channel for transmitting power control information of a reverse dedicated channel, and assignment information for identifying the serviced mobile station and assigning a reverse power control channel.

Claim 4. (Original) The method of claim 3, wherein the base station transmits reverse power control information to the at least one mobile station over a common power control channel.

Claim 5. (Original) The method of claim 3, wherein the serviced mobile station transmits a power control bit to the base station over the reverse dedicated channel as power control information for one of the common power control channel, a forward dedicated control channel, and the common assignment channel.

Claim 6. (Original) The method of claim 1, further comprising the step of transmitting, from the base station to the at least one mobile station, reverse power control information via a common power control channel and forward data via a forward dedicated control channel.

Claim 7. (Original) The method of claim 1, further comprising the step of transmitting, from the base station to the at least one mobile station reverse power control information via a common power channel and a control message to be delivered to a particular mobile station or a response message for reverse data a time-sharing common assignment channel or dedicated control channel.

Claim 8. (Original) The method of claim 1, further comprising the step of setting up, from the mobile station to the base station, a reverse fundamental channel, a dedicated control channel, and a supplemental channel.

Claim 9. (Currently Amended) A method for providing an interactive data service between a base station and at least one mobile station in a mobile communication system including a plurality of mobile stations, the base station communicating with the plurality of mobile stations, and a server connected to the base station, the server providing data to the plurality of mobile stations, the method comprising the steps of:

upon receiving a service request from at least one of the plurality of mobile stations, setting up, by the base station, a connection to the at least one of the plurality of mobile stations and opening a session for the requested service between the base station and the server;

transmitting, by the base station, service data transmitted from the server, to the at least one of the plurality of mobile stations over a forward dedicated channel during the interactive data service;

comparing, by the server, a number of the at least one of the plurality of mobile stations requesting the service with a predetermined threshold; and

if the number of the at least one of the plurality of mobile stations requesting the service is larger than the predetermined threshold, simultaneously transmitting, by the base station, service data to be provided from the server to the at least one of the plurality of mobile stations, to at least one of the at least of the plurality of mobile stations over a common channel during the interactive data service, and transmitting reverse transmission data over respective dedicated channels by the at least one of the plurality mobile stations receiving the service through the common channel during the interactive data service.

Claim 10. (Original) The method of claim 9, wherein the base station provides a broadcast service through the common channel.

Claim 11. (Original) The method of claim 9, wherein the base station transmits information for changing a forward data transmission channel from a dedicated channel to a common channel and a handoff direction message, to the at least one of the plurality of mobile stations.

Claim 12. (Original) The method of claim 11, wherein the handoff direction message includes multicast fundamental channel assignment information, common assignment channel assignment information for transmitting a response message for reverse data, common power control channel assignment information for transmitting power control information of a reverse dedicated channel, and information for identifying the mobile station requesting the service and assigning a reverse power control channel.

Claim 13. (Original) The method of claim 11, wherein the base station transmits reverse power control information to the at least one of the plurality of mobile stations over a common power control channel.

Claim 14. (Original) The method of claim 12, wherein the mobile station requesting the service transmits a power control bit to the base station over a reverse dedicated channel as power control information for one of a common power control channel, a forward dedicated control channel, and a common assignment channel.

Claim 15. (Original) The method of claim 9, wherein the base station transmits to the at least one of the plurality of mobile stations a release command message for changing a data transmission channel from the base station to the mobile station, from a dedicated channel to a common channel.

Claim 16. (Currently Amended) A method for releasing an interactive data service between a base station and a mobile station in a mobile communication system including a plurality of mobile stations, the base station communicating with the plurality of mobile stations, and a server connected to the base station, comprising the steps of:

transmitting, by the base station, service data to be transmitted from the server to the plurality of mobile stations, to at least one of the plurality of mobile stations over a common channel, and transmitting reverse transmission data over respective dedicated channels by at least one of the plurality of mobile stations receiving a service through the common channel during the interactive data service;

comparing, by the server, a number of the at least one of the plurality of mobile stations receiving the service with a predetermined threshold, while providing the service data;

if the number of the at least one of the plurality of mobile stations receiving the service data provided over the common channel is smaller than the threshold, transmitting by the base station service data provided from the server to at least one of the at least one of the plurality of mobile stations requesting the service over a dedicated channel during the interactive data service; and

releasing by the base station a session opened for a service between the base station and the server, if all of the at least one of the plurality of mobile stations receiving the service finish the service reception.

Claim 17. (Original) The method of claim 16, wherein the base station provides a broadcast service through the common channel.

Claim 18. (Currently Amended) A method for providing an interactive data service between a base station and a plurality of mobile stations in a mobile communication system including the plurality of mobile stations, the base station communicating with the plurality of mobile stations, and a server connected to the base station, comprising the steps of:

upon receiving a service request from a first mobile station, setting up, by the base station, a connection to the first mobile station, and shifting a state with the first mobile station to a traffic state;

opening, by the base station, a session for the requested service between the base station and the server, registering the first mobile station in the requested service, and shifting the state with the first mobile station to a dormant state;

upon receiving a service request from a second mobile station in the dormant state, paging, by the server, the first mobile station via the base station;

assigning, by the base station, a forward common channel and a reverse dedicated channel between the base station and the first mobile station; and

transmitting, by the base station, service data transmitted from the server, to the first mobile station over the assigned forward common channel, and transmitting by the first mobile station service data to be transmitted in a reverse direction over the assigned dedicated channel during the interactive data service.

Claim 19 (Canceled)

Claim 20. (Currently Amended) A method for providing an interactive data service between a base station and a mobile station in a mobile communication system including the mobile station, the base station communicating with the mobile station, and a server connected to the base station, comprising the steps of:

setting up, by the base station, a connection to the mobile station and shifting a state with the mobile station to a traffic state, if a data transmission request to the server is received from

the mobile station receiving service data provided from the server, from the base station over a common channel;

opening, by the base station, a session for the requested data transmission between the base station and the server;

assigning, by the base station, a reverse dedicated channel between the base station and the mobile station; and

transmitting, by the mobile station, service data to be transmitted in a reverse direction, over the assigned dedicated channel during the interactive data service.

Claim 21. (Original) The method of claim 20, wherein the base station provides a broadcast service through the common channel.

Claim 22. (Currently Amended) A method for providing an interactive data service between a base station and a mobile station in a mobile communication system including the mobile station, the base station communicating with the mobile station, and a server connected to the base station, comprising the steps of:

receiving, by the mobile station, radio resource information for the interactive data service from the base station;

sending, by the mobile station, an interactive data service request to the base station using the received information;

setting up, by the base station, a connection to the mobile station, and shifting a state with the mobile station to a traffic state;

opening, by the base station, a session for the requested service between the base station and the server;

assigning, by the base station, a forward common channel and a reverse dedicated channel between the base station and the mobile station;

transmitting, by the base station, service data to be provided from the server to the mobile station, to the mobile station over the assigned common channel during the interactive data service; and

transmitting, by the mobile station, service data to be provided from the mobile station to the server, to the base station over the assigned dedicated channel during the interactive data service.

Claim 23. (Original) The method of claim 22, wherein the base station provides a broadcast service through the common channel.

Claim 24. (Original) The method of claim 22, wherein the radio resource information comprises logical-to-physical mapping (LPM) information, multiplexing rule information, and multicast service reference identifier (MSR\_ID) information according to multicast fundamental channels (M-FCH).

Claims 25-27 (Canceled)